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# Datasheet for ABIN685447 anti-DDIT3 antibody (AA 75-168)

1 Image

2 Publications



#### Overview

Quantity:	100 μL
Target:	DDIT3
Binding Specificity:	AA 75-168
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDIT3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human DDIT3
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

### Target Details

Target:	DDIT3
Alternative Name:	GADD153/DDIT3 (DDIT3 Products)

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Target Details	
Background:	Synonyms: CHOP, CEBPZ, CHOP1, CHOP-1, GADD153, DNA damage-inducible transcript 3
	protein, DDIT-3, C/EBP zeta, C/EBP-homologous protein, C/EBP-homologous protein 1,
	CCAAT/enhancer-binding protein homologous protein, Growth arrest and DNA damage-
	inducible protein GADD153, DDIT3
	Background: Multifunctional transcription factor in ER stress response. Plays an essential role
	in the response to a wide variety of cell stresses and induces cell cycle arrest and apoptosis in
	response to ER stress. Plays a dual role both as an inhibitor of CCAAT/enhancer-binding protein
	(C/EBP) function and as an activator of other genes. Acts as a dominant-negative regulator of
	C/EBP-induced transcription: dimerizes with members of the C/EBP family, impairs their
	association with C/EBP binding sites in the promoter regions, and inhibits the expression of
	C/EBP regulated genes. Positively regulates the transcription of TRIB3, IL6, IL8, IL23,
	TNFRSF1B/DR5, PPP1R15A/GADD34, BBC3/PUMA, BCL2L11/BIM and ER01L. Negatively
	regulates, expression of BCL2 and MYOD1, ATF4-dependent transcriptional activation of
	asparagine synthetase (ASNS), CEBPA-dependent transcriptional activation of hepcidin (HAMP)
	and CEBPB-mediated expression of peroxisome proliferator-activated receptor gamma
	(PPARG). Inhibits the canonical Wnt signaling pathway by binding to TCF7L2/TCF4, impairing
	its DNA-binding properties and repressing its transcriptional activity. Plays a regulatory role in
	the inflammatory response through the induction of caspase-11 (CASP4/CASP11) which
	induces the activation of caspase-1 (CASP1) and both these caspases increase the activation
	of pro-IL1B to mature IL1B which is involved in the inflammatory response.
Gene ID:	1649
UniProt:	P35638
Pathways:	Regulation of Muscle Cell Differentiation, ER-Nucleus Signaling, Skeletal Muscle Fiber
	Development, Cell RedoxHomeostasis

# Application Details

WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

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## Application Details

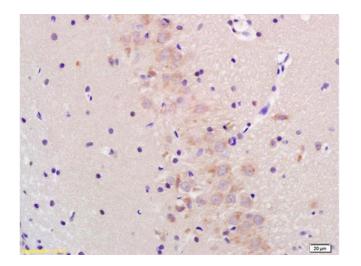
#### Restrictions:

For Research Use only

# Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Ding, Zou, Li, Tian, Abdelalim, Du, She, Wang, Tan, Wang, Chen, Lv, Chang: "Study of histopathological and molecular changes of rat kidney under simulated weightlessness and resistance training protective effect." in: <b>PLoS ONE</b> , Vol. 6, Issue 5, pp. e20008, (2011) (PubMed ).
	Du, Zhou, Jia, Huang: "SelK is a novel ER stress-regulated protein and protects HepG2 cells from ER stress agent-induced apoptosis." in: <b>Archives of biochemistry and biophysics</b> , Vol.

502, Issue 2, pp. 137-43, (2010) (PubMed).



#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-GADD153 Polyclonal Antibody, Unconjugated (ABIN685447) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

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